

28 May 1954

MEMORANDUM FOR: THE RECORD

SUBJECT: Project Monitor at [REDACTED]

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1. Time and Place of Meeting: The meetings were held on May 12th and 13th at the [REDACTED]

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2. Attendance: [REDACTED]

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3. Purpose: The purpose of these meetings was to investigate the status of P-77 and P-89 and to investigate the security of work being done for TSS/APD [REDACTED]

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4. Discussion:

a. Upon our arrival at the [REDACTED] played a 25 minute tape recording of tests he had made using the 80db amplifier, the recorder amplifier, and a variety of microphones and pre-amplifier microphones. The WWV receiver, a metal detector, a cache oscillator, two transmitters, and an RF probe were also demonstrated through the medium of this tape recording. This tape is available in TSS/APD and can be used for demonstrations in the future.

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b. The Portable Recorder Amplifier is completed and ready to be installed in the tape transport mechanism when it is made available to [REDACTED]. This device has been adequately described in previous memoranda for the record and will not be rediscussed here. It is sufficient to say that when the tape transport mechanism is delivered to [REDACTED] the amplifier will be installed and the project thus completed.

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This tone

DOCUMENT NO. _____
NO CHANGE IN CLASS. []
1. DECLASSIFIED
CLASS. CHANGED TO: TS S (C) 20 //
NEXT REVIEW DATE: _____
AUTH: HR 70-2

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This tone modulated transmitter is turned on by plugging the antenna into the top of the unit. This operation closes the battery circuit and connects the antenna. When the oscillator is not in use the antenna plug should always be removed. The oscillator circuit is as follows:

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L wound on high Q core

C to resonate at 9.8mc

NOTE: When opening case, keep small piece of polyethylene sheet in place over the coil. This will help to prevent the metal case cover from overloading the tank.

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d. Delivery of the five Time Signal Radios will be made as soon as the present crash program is completed and the [] project engineer can resume work on this receiver. The design is finalized and described in the report: "The W/Receiver and Its Development," which is available in TSS/APD. As yet, no proposal for a 5, 10, and 15mc Time Signal Radio has been received. TSS/APD expects this proposal in the near future.

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e. A Microphone Preamplifier report was delivered at this time along with two prototype models of a two wire microphone preamplifier system. The preamplifier microphones are used in conjunction with a battery-transformer unit which is located at the recorder. The system has been tested over 920 feet of twisted pair microphone wire (resistance of 15 ohms per leg) and found to operate very satisfactorily. Greater lengths of wire can be used provided the D.C. resistance of the wire is not excessive. After having read the report, several omissions and some criticism of the reasoning displayed therein were noted. At present, TSS/APD is awaiting a rewrite of this report. The two prototypes will be tested in TSS/APD.

f. Work

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f. Work on the component parts for the Transistorized Sound-D-Tech Kit (P-89) is nearing completion and it appears likely that a prototype kit will be completed in the latter part of June, 1954. A finalized model of the metal detector has been completed; work is nearing completion on the RF Tuner, the Induction Coil, and the Amplifier.

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h. The general problem of a Miniature Remote Controlled Radio Switch was treated in a report from [] which was delivered during this trip. This report has been read and the comments of TSS/APD have been forwarded to [] who will submit further details on his ideas relevant to the radio switch.

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i. Plans have been made for [] to visit and study with [] during the period of 1 through 4 June, 1954. He will study transistor circuitry and other problems relevant to the work being performed under P-118.

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5. Actions:

a. []

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- 1) Build five each WWV Time Signal Radios.
- 2) Write proposal on a 5, 10, and 15mc Time Signal Radio.
- 3) Rewrite the Pre-amplifier Microphone report making recommendations as to which is the best combination, based on comparative testing.
- 4) Construct a 74 mc Miniature, Transistorized Transmitter with about 250 mw of power.

5) Complete

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5) Complete and deliver one prototype Transistorized Sound-D-Tech Kit.

6) Complete and deliver one prototype Oscillator Cache Locator System.

7) Complete and deliver a 490 KC transmitter and accompanying receiver and radio adaptor.

8) Rewrite proposal on remote controlled radio switch.

9) [] minutes on [] Meeting March 16, 1954. 50X1

10) Return three each 80db amplifiers submitted for repair.

11) Continue to submit new transistor test data.

b. EAEB/APD:

1) Obtain mechanical portion of portable recorder from ASD and deliver same to [] 50X1

HB,

[]
TSS/APD 50X1

Distribution:

Orig. - P-77

11 - P-87

1 - Chrono

1 - HB

HB/br

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